

		Material	Mat'l Density (Kg/cubic inches)				
		Ceramic		0.05902			
		Glass (LS-0113)		0.112251388			
		Leadframe (Alloy 42)		0.13166			
Wire vol = 1.84078E-07		Aluminum Wire		0.04424			
		Silicon		0.03814			
		Die Attach (Ag glass)		0.131			
		Tin Lead Solder (63/37)		0.137815			
Pkg	Pin	Component	Volume(cubic inches)	Component Weight (Kg)	True Weight (Kg)	Percent Error	
JG Small Cavity	8	Ceramic(Base)	0.0071356	0.000421143			
		Glass (Base)	0.00085184	9.56202E-05			
		Ceramic (Cap)	0.00420489	0.000248173			
		Glass (Cap)	0.00087815	9.85736E-05			
		L/F	0.0013872	0.000182639			
		Wire	1.47262E-06	6.51488E-08			
		Silicon	0.00003705	1.41309E-06			
		Die Attach	0.000036	0.000004716			
		Solder	0.00002912	4.01317E-06			
Total Weight (Kg)=			0.001056356	0.001	5.636%		
JG Large Cavity	8	Ceramic(Base)	0.0070516	0.000416185			
		Glass (Base)	0.00075944	8.52482E-05			
		Ceramic (Cap)	0.00393642	0.000232328			
		Glass (Cap)	0.00069446	7.79541E-05			
		L/F	0.0013872	0.000182639			
		Wire	1.47262E-06	6.51488E-08			
		Silicon	0.00003705	1.41309E-06			
		Die Attach	0.000036	0.000004716			
		Solder	0.00002912	4.01317E-06			
Total Weight (Kg)=			0.001004561	0.001	0.456%		
U	10	Ceramic(Base)	0.001108782	6.54403E-05			
		Glass (Base)	0.000329448	3.6981E-05			
		Ceramic (Cap)	0.001192487	7.03806E-05			
		Glass (Cap)	0.000233448	2.62049E-05			

		L/F	0.00034	4.47644E-05		
		Wire	1.84078E-06	8.1436E-08		
		Silicon	0.0000832	3.17325E-06		
		Die Attach	0.0000288	3.7728E-06		
		Solder	0.000066	9.09579E-06		
		Total Weight (Kg) =		0.000259894	0.0002	29.947%
W	14	Base	0.0020382	0.000120295		
		Glass (Base)	0.00043152	4.84387E-05		
		Cap	0.00180438	0.000106495		
		Glass (Cap)	0.00032912	3.69442E-05		
		L/F	0.000476	6.26702E-05		
		Wire	2.57709E-06	1.1401E-07		
		Silicon	0.0000832	3.17325E-06		
		Die Attach	0.0000288	3.7728E-06		
		Solder	0.0000924	1.27341E-05		
		Total Weight (Kg) =		0.000394636	0.0004	1.341%
W	16	Base	0.00261428	0.000154295		
		Glass (Base)	0.000532553	5.97798E-05		
		Cap	0.00270768	0.000159807		
		Glass (Cap)	0.00056646	6.35859E-05		
		L/F	0.000544	7.1623E-05		
		Wire	2.94524E-06	1.30298E-07		
		Silicon	0.0000832	3.17325E-06		
		Die Attach	0.0000288	3.7728E-06		
		Solder	0.0001056	1.45533E-05		
		Total Weight (Kg) =		0.00053072	0.0005	6.144%
W	20	Base	0.003216948	0.000189864		
		Glass (Base)	0.000830232	9.31947E-05		
		Cap	0.0038309	0.0002261		
		Glass (Cap)	0.0008014	8.99583E-05		
		L/F	0.00068	8.95288E-05		
		Wire	3.68155E-06	1.62872E-07		
		Silicon	0.0001755	6.69357E-06		
		Die Attach	0.0000408	5.3448E-06		
		Solder	0.000099	1.36437E-05		
		Total Weight (Kg) =		0.000714491	0.0006	19.082%

WD	48	Base	0.0072618	0.000428591		
		Glass (Base)	0.001843	0.000206879		
		Cap	0.0074121	0.000437462		
		Glass (Cap)	0.001643	0.000184429		
		L/F	0.001596	0.000210129		
		Wire	8.83573E-06	3.90893E-07		
		Silicon	0.0002717	1.03626E-05		
		Die Attach	0.000069	0.000009039		
		Solder	0.000216	2.9768E-05		
		Total Weight (Kg) =	0.001517052	0.0014	8.361%	
WD	56	Base	0.0083328	0.000491802		
		Glass (Base)	0.00204	0.000228993		
		Cap	0.0084636	0.000499522		
		Glass (Cap)	0.001812	0.0002034		
		L/F	0.001862	0.000245151		
		Wire	1.03084E-05	4.56041E-07		
		Silicon	0.0002717	1.03626E-05		
		Die Attach	0.000069	0.000009039		
		Solder	0.000252	3.47294E-05		
		Total Weight (Kg) =	0.001723454	0.0015	14.897%	
J Small Cavity	14	Base	0.0139006	0.000820413		
		Glass (Base)	0.002348293	0.000263599		
		Cap	0.00864842	0.00051043		
		Glass (Cap)	0.002762563	0.000310102		
		L/F	0.0018578	0.000244598		
		Wire	2.57709E-06	1.1401E-07		
		Silicon	0.0000832	3.17325E-06		
		Die Attach	0.0000288	3.7728E-06		
		Solder	0.00013426	1.8503E-05		
		Total Weight (Kg) =	0.002174705	0.0021	3.557%	
J Large Cavity	14	Base	0.016016	0.000945264		
		Glass (Base)	0.002346708	0.000263421		
		Cap	0.00882274	0.000520718		
		Glass (Cap)	0.001742633	0.000195613		
		L/F	0.00180054	0.000237059		

		Wire	2.57709E-06	1.1401E-07		
		Silicon	0.00013	4.9582E-06		
		Die Attach	0.0000392	5.1352E-06		
		Solder	0.0001295	1.7847E-05		
		Total Weight (Kg) =		0.00219013	0.0021	4.292%
WA	14	Base	0.000942153	5.56059E-05		
		Glass (Base)	0.000274554	3.08191E-05		
		Cap	0.000935268	5.51995E-05		
		Glass (Cap)	0.000249308	2.79852E-05		
		L/F	0.000476	6.26702E-05		
		Wire	2.57709E-06	1.1401E-07		
		Silicon	0.0000325	1.23955E-06		
		Die Attach	0.0000162	2.1222E-06		
		Solder	0.0000924	1.27341E-05		
		Total Weight (Kg) =		0.00024849	0.0002	24.245%
J	16	Base	0.0139006	0.000820413		
Small Cavity		Glass (Base)	0.002348293	0.000263599		
		Cap	0.00864842	0.00051043		
		Glass (Cap)	0.002927413	0.000328606		
		L/F	0.00209088	0.000275285		
		Wire	2.94524E-06	1.30298E-07		
		Silicon	0.0000832	3.17325E-06		
		Die Attach	0.0000288	3.7728E-06		
		Solder	0.00015904	2.19181E-05		
		Total Weight (Kg) =		0.002227328	0.0022	1.242%
J	16	Base	0.016016	0.000945264		
Large Cavity		Glass (Base)	0.002346708	0.000263421		
		Cap	0.00882274	0.000520718		
		Glass (Cap)	0.001742633	0.000195613		
		L/F	0.00221696	0.000291885		
		Wire	2.94524E-06	1.30298E-07		
		Silicon	0.00013	4.9582E-06		
		Die Attach	0.0000392	5.1352E-06		
		Solder	0.000154336	2.12698E-05		
		Total Weight (Kg) =		0.002248395	0.0022	2.200%

J	20	Base	0.02012	0.001187482		
		Glass (Base)	0.00217792	0.000244475		
		Cap	0.0144495	0.000852809		
		Glass (Cap)	0.003931375	0.000441302		
		L/F	0.0026448	0.000348214		
		Wire	3.68155E-06	1.62872E-07		
		Silicon	0.00013	4.9582E-06		
		Die Attach	0.0000392	5.1352E-06		
		Solder	0.0002198	3.02917E-05		
		Total Weight (Kg) =	0.003114831	0.0031	0.478%	
J	24	Base	0.048125	0.002840338		
		Glass (Base)	0.007713639	0.000865867		
		Cap	0.03012697	0.001778094		
		Glass (Cap)	0.007772475	0.000872471		
		L/F	0.00474696	0.000624985		
		Wire	4.41786E-06	1.95446E-07		
		Silicon	0.0002925	1.1156E-05		
		Die Attach	0.0000722	9.4582E-06		
		Solder	0.00039156	5.39628E-05		
		Total Weight (Kg) =	0.007056526	0.0066	6.917%	
JT	24	Base	0.0263625	0.001555915		
		Glass (Base)	0.0046554	0.000522575		
		Cap	0.0167365	0.000987788		
		Glass (Cap)	0.0044025	0.000494187		
		L/F	0.00352944	0.000464686		
		Wire	4.41786E-06	1.95446E-07		
		Silicon	0.00013	4.9582E-06		
		Die Attach	0.0000392	5.1352E-06		
		Solder	0.00024576	3.38694E-05		
		Total Weight (Kg) =	0.004069309	0.004	1.733%	
W	24	Base	0.00540015	0.000318717		
		Glass (Base)	0.0009751	0.000109456		
		Cap	0.0055125	0.000325348		
		Glass (Cap)	0.0011025	0.000123757		
		L/F	0.000816	0.000107435		
		Wire	4.41786E-06	1.95446E-07		

		Silicon	0.00013	4.9582E-06		
		Die Attach	0.0000392	5.1352E-06		
		Solder	0.0001188	1.63724E-05		
		Total Weight (Kg) =		0.001011374	0.0011	8.057%
J	28	Base	0.06061725	0.00357763		
		Glass (Base)	0.009894	0.001110615		
		Cap	0.0380021	0.002242884		
		Glass (Cap)	0.0051395	0.000576916		
		L/F	0.00577416	0.000760226		
		Wire	5.15418E-06	2.28021E-07		
		Silicon	0.0008788	3.35174E-05		
		Die Attach	0.00027	0.00003537		
		Solder	0.000293888	4.05022E-05		
		Total Weight (Kg) =		0.008377889	0.0079	6.049%
JT	28	Base	0.0312372	0.00184362		
		Glass (Base)	0.0046332	0.000520083		
		Cap	0.0194436	0.001147561		
		Glass (Cap)	0.006098616	0.000684578		
		L/F	0.00426216	0.000561156		
		Wire	5.15418E-06	2.28021E-07		
		Silicon	0.0002912	1.11064E-05		
		Die Attach	0.000068	0.000008908		
		Solder	0.00028672	3.95143E-05		
		Total Weight (Kg) =		0.004816755	0.0047	2.484%
HV	68	Base	0.013658	0.000806095		
		Glass (Base)	0.001204	0.000135151		
		Cap	0.01215	0.000717093		
		Glass (Cap)	0.0009	0.000101026		
		L/F	0.002992	0.000393927		
		Wire	1.25173E-05	5.53765E-07		
		Silicon	0.00052	1.98328E-05		
		Die Attach	0.0001728	2.26368E-05		
		Solder	0.0004624	6.37257E-05		
		Total Weight (Kg) =		0.002260041	0.002	13.002%
HFP	132	Base	0.042725	0.00252163		

	Glass (Base)	0.0111375	0.0012502		
	Cap	0.0406375	0.002398425		
	Glass (Cap)	0.00434	0.000487171		
	L/F	0.004356	0.000573511		
	Wire	2.42983E-05	1.07495E-06		
	Silicon	0.0013312	5.0772E-05		
	Die Attach	0.0005184	6.79104E-05		
	Solder	0.0008976	0.000123703		
	Total Weight (Kg) =		0.007474397	0.0085	12.066%
Multilayered					
HFG 132	Header	0.06190325	0.00365353		
Small Cavity	Lid	0.0075615	0.000995547		
	L/F	0.00776478	0.001022311		
	Tie Bars	0.03388	0.001999598		
	Wire	2.42983E-05	1.07495E-06		
	Silicon	0.0010192	3.88723E-05		
	Die Attach	0.0004096	5.36576E-05		
	Solder	0.00121176	0.000166999		
	Total Weight (Kg) =		0.007931589	0.0087	8.832%
HFH 352	Header	0.3459154	0.020415927		
	Lid	0.013824	0.001820068		
	L/F	0.012309504	0.001620669		
	Tie Bars	0.06114486	0.00360877		
	Wire	6.47953E-05	2.86655E-06		
	Silicon	0.0029952	0.000114237		
	Die Attach	0.0010816	0.00014169		
	Solder	0.002455024	0.000338339		
	Total Weight (Kg) =		0.028062566	0.0299	6.145%
HFG 132	Header	0.06239	0.003682258		
Large Cavity	Lid	0.0075615	0.000995547		
	L/F	0.0063867	0.000840873		
	Tie Bars	0.03388	0.001999598		
	Wire	2.42983E-05	1.07495E-06		
	Silicon	0.0017797	6.78778E-05		
	Die Attach	0.0006724	8.80844E-05		
	Solder	0.0009702	0.000133708		
	Total Weight (Kg) =		0.007809021	0.0087	10.241%

HFH	320	Header	0.247198816	0.014589674		
		Lid	0.01215	0.001599669		
		Heat Sink	0.01805	0.004821155		
		L/F	0.012703692	0.001672568		
		Tie Bars	0.06114486	0.00360877		
		Wire	5.89049E-05	2.60595E-06		
		Silicon	0.0039208	0.000149539		
		Die Attach	0.0013888	0.000181933		
		Solder	0.0027552	0.00012189		
		Total Weight (Kg) =	0.026747804	0.0321	16.674%	
HFG	196	Header	0.1593964	0.009407576		
		Lid	0.0113535	0.001494802		
		L/F	0.00913368	0.00120254		
		Tie Bars	0.0476	0.002809352		
		Wire	3.60792E-05	1.59615E-06		
		Silicon	0.001365	5.20611E-05		
		Die Attach	0.0005304	6.94824E-05		
		Solder	0.00160524	0.000221226		
				Total Weight (Kg) =	0.015258635	0.0167
HFG	164	Header	0.101671	0.006000622		
		Lid	0.008664	0.001140702		
		L/F	0.0109654	0.001443705		
		Tie Bars	0.063	0.00371826		
		Wire	3.01887E-05	1.33555E-06		
		Silicon	0.00117	4.46238E-05		
		Die Attach	0.0004624	6.05744E-05		
		Solder	0.00190978	0.000263196		
				Total Weight (Kg) =	0.012673019	
HFG	84	Header	0.0198445	0.001171222		
		Lid	0.002601	0.000342448		
		L/F	0.00396075	0.000521472		
		Tie Bars	0.0182875	0.001079328		
		Wire	1.54625E-05	6.84062E-07		
		Silicon	0.0010192	3.88723E-05		
		Die Attach	0.0004096	5.36576E-05		

		Solder	0.00062055	8.55211E-05		
		Total Weight (Kg) =		0.003293206	0.0035	5.908%
FJ	44	Header	0.0221085	0.001304844		
Large Cavity		Lid	0.00225625	0.000297058		
		L/F	0.001862076	0.000245161		
		Wire	8.09942E-06	3.58318E-07		
		Silicon	0.00052	1.98328E-05		
		Die Attach	0.0002304	3.01824E-05		
		Solder	0.000107819	1.48591E-05		
		Total Weight (Kg) =		0.001912295	0.0027	29.174%
FJ	44	Header	0.0231705	0.001367523		
Small Cavity		Lid	0.008	0.00047216		
		Seal Glass	0.00057	6.39833E-05		
		L/F	0.001862076	0.000245161		
		Wire	8.09942E-06	3.58318E-07		
		Silicon	0.00052	1.98328E-05		
		Die Attach	0.0002304	3.01824E-05		
		Solder	0.000107819	1.48591E-05		
		Total Weight (Kg) =		0.00221406	0.0027	17.998%
FJ	68	Header	0.064198	0.003788966		
		Lid	0.010907213	0.000643744		
		Lid Lens	0.00453646	0.000509224		
		Seal Glass	0.0016506	0.000185282		
		L/F	0.002364474	0.000311307		
		Wire	1.25173E-05	5.53765E-07		
		Silicon	0.0010192	3.88723E-05		
		Die Attach	0.0004096	5.36576E-05		
		Solder	0.00016663	2.29641E-05		
		Total Weight (Kg) =		0.00555457	0.0066	15.840%
FJ	68	Header	0.064198	0.003788966		
		Lid	0.00366025	0.000481909		
		L/F	0.002660034	0.00035022		
		Wire	1.25173E-05	5.53765E-07		
		Silicon	0.0010192	3.88723E-05		
		Die Attach	0.0004096	5.36576E-05		

		Solder	0.000173039	2.38474E-05		
		Total Weight (Kg) =		0.004738026	0.0066	28.212%
JD 40		Header	0.0980975	0.005789714		
Small Cavity		Lid	0.00255025	0.000335766		
		L/F	0.00276	0.000363382		
		Wire	7.36311E-06	3.25744E-07		
		Silicon	0.0006877	2.62289E-05		
		Die Attach	0.0002916	3.81996E-05		
		Solder	0.000196	2.70117E-05		
		Total Weight (Kg) =		0.006580628	0.0078	15.633%
JD 40		Header	0.097448	0.005751381		
Large Cavity		Lid	0.00265225	0.000349195		
		L/F	0.00276	0.000363382		
		Wire	7.36311E-06	3.25744E-07		
		Silicon	0.0006877	2.62289E-05		
		Die Attach	0.0002916	3.81996E-05		
		Solder	0.000196	2.70117E-05		
		Total Weight (Kg) =		0.006555724	0.0078	15.952%
GB 68		Header	0.0983975	0.00580742		
		Lid	0.00366025	0.000481909		
		Pins	0.005825644	0.000767004		
		Wire	1.25173E-05	5.53765E-07		
		Silicon	0.0010192	3.88723E-05		
		Die Attach	0.0004096	5.36576E-05		
		Solder	0.000365304	5.03444E-05		
		Total Weight (Kg) =		0.007199761	0.0073	1.373%
GFA 141		Header	0.1004555	0.005928884		
Small Cavity		Lid	0.0075615	0.000995547		
		Pins	0.010445104	0.001375202		
		Wire	2.5955E-05	1.14825E-06		
		Silicon	0.00208	7.93312E-05		
		Die Attach	0.0007744	0.000101446		
		Solder	0.000717603	9.88964E-05		
		Total Weight (Kg) =		0.008580455	0.0088	2.495%

GFA 141 Large Cavity	Header	0.10016	0.005911443		
	Lid	0.0075615	0.000995547		
	Pins	0.010445104	0.001375202		
	Wire	2.5955E-05	1.14825E-06		
	Silicon	0.00208	7.93312E-05		
	Die Attach	0.0007744	0.000101446		
	Solder	0.000717603	9.88964E-05		
	Total Weight (Kg) =		0.008563015	0.0088	2.693%
GF 305	Header	0.342401656	0.020208546		
	Lid	0.01215	0.001599669		
	Heat Sink	0.0484	0.01292764		
	Pins	0.01828458	0.002407348		
	Wire	5.61437E-05	2.4838E-06		
	Silicon	0.0039325	0.000149986		
	Die Attach	0.0013924	0.000182404		
	Solder	0.001379787	0.000190155		
Total Weight (Kg) =		0.037668232			
GB 68	Header	0.0886	0.005229172		
	Lid	0.010907213	0.000643744		
	Lid Lens	0.00453646	0.000509224		
	Seal Glass	0.0016506	0.000185282		
	Pins	0.00537115	0.000707166		
	Wire	1.25173E-05	5.53765E-07		
	Silicon	0.00117	4.46238E-05		
	Die Attach	0.0004624	6.05744E-05		
	Solder	0.000346078	4.76947E-05		
Total Weight (Kg) =		0.007428034	0.0073	1.754%	
GB 181	Header	0.2313915	0.013656726		
	Lid	0.0319225	0.001884066		
	Pins	0.014296736	0.001882308		
	Wire	3.33181E-05	1.47399E-06		
	Silicon	0.00117	4.46238E-05		
	Die Attach	0.0004624	6.05744E-05		
	Solder	0.000921178	0.000126952		
	Total Weight (Kg) =		0.017656725	0.0165	7.010%

GB 132	Header	0.1674	0.009879948		
	Lid	0.003481	0.000458308		
	Pins	0.011126139	0.001464867		
	Wire	2.42983E-05	1.07495E-06		
	Silicon	0.00117	4.46238E-05		
	Die Attach	0.0004624	6.05744E-05		
	Solder	0.000671798	9.25839E-05		
	Total Weight (Kg) =		0.012001981	0.0135	11.096%
GB 145	Header	0.18145	0.010709179		
	Lid	0.0093615	0.001232535		
	Pins	0.012221895	0.001609135		
	Wire	2.66913E-05	1.18082E-06		
	Silicon	0.0026325	0.000100404		
	Die Attach	0.0009604	0.000125812		
	Solder	0.00073796	0.000101702		
	Total Weight (Kg) =		0.013879948	0.0147	5.579%
GLP 429	Header	0.049379645	0.002914387		
	Lid	0.008922738	0.001174768		
	Balls	0.003768563	0.000519365		
	Silicon	0.002620813	9.99578E-05		
	Total Weight (Kg) =		0.004708477	0.0062	24.057%
FD 68 Large Cavity	Header	0.064	0.00377728		
	Lid	0.00366025	0.000481909		
	Wire	1.25173E-05	5.53765E-07		
	Silicon	0.0008125	3.09888E-05		
	Die Attach	0.0003364	4.40684E-05		
	Solder	0.000410166	5.65271E-05		
	Total Weight (Kg) =		0.004391327	0.0046	4.536%
FD 68 Small Cavity	Header	0.0672	0.003966144		
	Lid	0.00366025	0.000481909		
	Wire	1.25173E-05	5.53765E-07		
	Silicon	0.0008125	3.09888E-05		
	Die Attach	0.0003364	4.40684E-05		
	Solder	0.000410166	5.65271E-05		
	Total Weight (Kg) =		0.004580191	0.0046	0.431%

HFH 256 Small Cavity	Header	0.179548455	0.01059695		
	Lid	0.0075615	0.000995547		
	L/F	0.012676044	0.001668928		
	Tie Bars	0.0946659	0.005587181		
	Wire	4.71239E-05	2.08476E-06		
	Silicon	0.0026325	0.000100404		
	Die Attach	0.0009604	0.000125812		
	Solder	0.00272384	0.000375386		
	Total Weight (Kg) =		0.019452293		
HFH 256 Large Cavity	Header	0.173149455	0.010219281		
	Lid	0.0113535	0.001494802		
	L/F	0.012676044	0.001668928		
	Tie Bars	0.0946659	0.005587181		
	Wire	4.71239E-05	2.08476E-06		
	Silicon	0.0026325	0.000100404		
	Die Attach	0.0009604	0.000125812		
	Solder	0.00272384	0.000375386		
	Total Weight (Kg) =		0.019573879		
FK 20	Header	0.0042548	0.000251118		
	Lid	0.0018	0.000106236		
	Seal Glass	0.000336	3.77165E-05		
	Wire	3.68155E-06	1.62872E-07		
	Silicon	0.000082992	3.16531E-06		
	Die Attach	0.0000576	7.5456E-06		
	Solder	0.000175929	2.42457E-05		
	Total Weight (Kg) =		0.00043019	0.0005	13.962%
FK 28 Small Cavity	Header	0.0063862	0.000376914		
	Lid	0.003042	0.000179539		
	Seal Glass	0.000288	3.23284E-05		
	Wire	5.15418E-06	2.28021E-07		
	Silicon	0.000219232	8.36151E-06		
	Die Attach	0.000096	0.000012576		
	Solder	0.000246301	3.3944E-05		
	Total Weight (Kg) =		0.00064389	0.0008	19.514%

FK 28 Large Cavity	Header	0.00496146	0.000292825		
	Lid	0.0016	0.000210656		
	Seal Ring	0.00087246	0.000275959		
	Wire	5.15418E-06	2.28021E-07		
	Silicon	0.000219232	8.36151E-06		
	Die Attach	0.000096	0.000012576		
	Solder	0.000246301	3.3944E-05		
	Total Weight (Kg) =		0.00083455	0.0008	4.319%
GB 84	Header	0.087096	0.005140406		
	Lid	0.004761	0.000626833		
	Pins	0.006634949	0.000873557		
	Wire	1.54625E-05	6.84062E-07		
	Silicon	0.001428596	5.44867E-05		
	Die Attach	0.0006084	7.97004E-05		
	Solder	0.000427508	5.8917E-05		
	Total Weight (Kg) =		0.006834585	0.0073	6.376%
HFG 100	Header	0.0346374	0.002044299		
	Lid	0.0036	0.000473976		
	L/F	0.01086	0.001429828		
	Tie Bars	0.0945	0.00557739		
	Wire	1.84078E-05	8.1436E-07		
	Silicon	0.001798992	6.86136E-05		
	Die Attach	0.000678976	8.89459E-05		
	Solder	0.001544	0.000212786		
Total Weight (Kg) =		0.009896653	0.0097	2.027%	
HFN 408	Header				
	Lid				
	L/F				
	Wire	7.51037E-05	3.32259E-06		
	Silicon	0.00619008	0.00023609		
	Die Attach	0.00222976	0.000292099		
	Solder				
	Total Weight (Kg) =		0.000531511	0.063	99.156%
HFH 288	Header	0.21129658	0.012470724		
	Lid	0.012696	0.001671555		

L/F	0.011597484	0.001526925
Tie Bars	0.06111728	0.003607142
Wire	5.30144E-05	2.34536E-06
Silicon	0.002370277	9.04024E-05
Die Attach	0.0008649	0.000113302
Solder	0.00250848	0.000345706
Total Weight (Kg) =		0.019828102

FK	44	Header	0.0231705	0.001367523		
		Lid	0.00225625	0.000297058		
		Wire	8.09942E-06	3.58318E-07		
		Silicon	0.000421148	1.60626E-05		
		Die Attach	0.000193584	2.53595E-05		
		Solder	0.000387044	5.33405E-05		
		Total Weight (Kg) =		0.001759702	0.0019	7.384%

Multi-Layered Ceramic Packages

Pin
 Package
 Group
 Description
 Comments
 Body Size
 Package Mass

132
 HFG
 MIL

352
 HFH
 MIL

24.13 X 24.13 X 2.51 48.01 X 48.01 X 3.00
 7.9316 28.0626

Item	Component	CAS #	Substance	%	Amount	Amount
Header	Ceramic	1344-28-1	Al2O3	90.000%	3288.1768	18374.3342
NCTB	Ceramic	1344-28-1	Al2O3	90.000%	1799.6378	3247.8927
Leadframe	Kovar	7439-89-6	Fe	53.000%	541.8248	858.9547
Leadframe	Kovar	7440-48-4	Co	29.000%	296.4702	469.9941
Leadframe	Kovar	7440-02-0	Ni	17.000%	173.7929	275.5138
Leadframe	Kovar	7439-96-5	Manganese	0.500%	5.1116	8.1033
Leadframe	Kovar	7440-21-3	Silicon	0.200%	2.0446	3.2413
Leadframe	Kovar	7440-44-0	Carbon	0.040%	0.4089	0.6483
Leadframe	Kovar	7429-90-5	Aluminum	0.100%	1.0223	1.6207
Leadframe	Kovar	7439-95-4	Magnesium	0.100%	1.0223	1.6207
Leadframe	Kovar	7440-67-7	Zirconium	0.100%	1.0223	1.6207
Leadframe	Kovar	7440-32-6	Titanium	0.100%	1.0223	1.6207
Leadframe	Kovar	7440-50-8	Copper	0.200%	2.0446	3.2413
Leadframe	Kovar	7440-47-3	Chromium	0.200%	2.0446	3.2413
Leadframe	Kovar	7439-98-7	Molybdenum	0.200%	2.0446	3.2413
Lid	Kovar	7439-89-6	Fe	53.000%	527.6400	964.6360
Lid	Kovar	7440-48-4	Co	29.000%	288.7087	527.8197
Lid	Kovar	7440-02-0	Ni	17.000%	169.2430	309.4115
Lid	Kovar	7439-96-5	Manganese	0.500%	4.9777	9.1003
Lid	Kovar	7440-21-3	Silicon	0.200%	1.9911	3.6401
Lid	Kovar	7440-44-0	Carbon	0.040%	0.3982	0.7280
Lid	Kovar	7429-90-5	Aluminum	0.100%	0.9955	1.8201
Lid	Kovar	7439-95-4	Magnesium	0.100%	0.9955	1.8201
Lid	Kovar	7440-67-7	Zirconium	0.100%	0.9955	1.8201
Lid	Kovar	7440-32-6	Titanium	0.100%	0.9955	1.8201
Lid	Kovar	7440-50-8	Copper	0.200%	1.9911	3.6401
Lid	Kovar	7440-47-3	Chromium	0.200%	1.9911	3.6401
Lid	Kovar	7439-98-7	Molybdenum	0.200%	1.9911	3.6401
Lid	Ceramic	1344-28-1	Al2O3	90.000%		
Die Attach	N/A	7440-22-4	Silver	79.000%	42.3895	111.9348

Die Attach	N/A	lead 7439-92-1	filler (lead,	12.000%	6.4389	17.0028
Die Attach	N/A	vanadium 1314-62-2	vanadium,			
		tellurium 10028-16-7	tellurium glass)	9.000%	4.8292	12.7521
Seal Glass	LS-0113	14808-60-7	SiO2	2.810%		
Seal Glass	LS-0113	13463-67-7	TiO2	10.920%		
Seal Glass	LS-0113	11314-23-4	ZrO2	4.530%		
Seal Glass	LS-0113	1344-28-1	Al2O3	0.670%		
Seal Glass	LS-0113	1317-60-8	Fe2O3	0.410%		
Seal Glass	LS-0113	1308-38-9	Cr2O3	0.470%		
Seal Glass	LS-0113	1317-36-8	PbO	73.590%		
Seal Glass	LS-0113	1307-96-6	CoO	0.100%		
Seal Glass	LS-0113	1305-78-8	CaO	0.010%		
Seal Glass	LS-0113	1309-48-4	MgO	0.010%		
Seal Glass	LS-0113	12030-88-5	K2O	0.010%		
Seal Glass	LS-0113	124-86-4	Na2O	0.010%		
Seal Glass	LS-0113	1303-86-2	B2O3	6.590%		
Bond Wire	Aluminum	7429-90-5	Aluminum	99.000%	1.0642	2.8379
Bond Wire	Aluminum	7440-21-3	Silicon	1.000%	0.0107	0.0287
Leadframe Plating	Solder dipped	7440-31-5	Tin	63.000%	105.2092	213.1537
Leadframe Plating	Solder dipped	7439-92-1	Lead	37.000%	61.7895	125.1855
Leadframe Plating	non-solder dipped	7440-02-0	Nickel	76.000%	79.6126	161.2951
Leadframe Plating	non-solder dipped	7440-57-5	Gold	24.000%	53.6592	108.7134
Lid Plating	N/A	7440-02-0	Nickel	76.000%	33.1194	60.5491
Lid Plating	N/A	7440-57-5	Gold	24.000%	22.3226	40.8103
Heat Sink	N/A	7440-33-7	Tungsten	90.000%		
Heat Sink	N/A	7440-50-8	Copper	10.000%		

Product Content Methodology

[For an explanation of the methods used to determine material weights, See Product Content Methodology.](#)

Important Warranty and Disclaimer Information

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320
HFH
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164
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84
HFG
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68
FJ
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43.99 X 43.99 X 3.30 26.7478
34.29 X 34.29 X 2.82 15.2586
28.70 X 28.70 X 2.68 12.6730
16.51 X 16.51 X 1.91 3.2932
16.51 X 16.51 X 2.77 2.2141
24.13 X 24.13 X 3.28 5.5546

Amount	Amount	Amount	Amount	Amount	Amount
13130.7067	8466.8180	5400.5602	1054.1002	1230.7706	3410.0694
3247.8927	2528.4168	3346.4340	971.3954		
886.4611	637.3464	765.1634	276.3803	129.9353	164.9925
485.0447	348.7367	418.6743	151.2270	71.0967	90.2789
284.3366	204.4319	245.4298	88.6503	41.6774	52.9221
8.3628	6.0127	7.2185	2.6074	1.2258	1.5565
3.3451	2.4051	2.8874	1.0429	0.4903	0.6226
0.6690	0.4810	0.5775	0.2086	0.0981	0.1245
1.6726	1.2025	1.4437	0.5215	0.2452	0.3113
1.6726	1.2025	1.4437	0.5215	0.2452	0.3113
1.6726	1.2025	1.4437	0.5215	0.2452	0.3113
1.6726	1.2025	1.4437	0.5215	0.2452	0.3113
3.3451	2.4051	2.8874	1.0429	0.4903	0.6226
3.3451	2.4051	2.8874	1.0429	0.4903	0.6226
3.3451	2.4051	2.8874	1.0429	0.4903	0.6226
847.8246	792.2450	604.5722	181.4973		
463.9040	433.4925	330.8036	99.3098		
271.9437	254.1163	193.9194	58.2161		
7.9983	7.4740	5.7035	1.7122		
3.1993	2.9896	2.2814	0.6849		
0.6399	0.5979	0.4563	0.1370		
1.5997	1.4948	1.1407	0.3424		
1.5997	1.4948	1.1407	0.3424		
1.5997	1.4948	1.1407	0.3424		
1.5997	1.4948	1.1407	0.3424		
3.1993	2.9896	2.2814	0.6849		
3.1993	2.9896	2.2814	0.6849		
3.1993	2.9896	2.2814	0.6849		
				424.9440	579.3693
143.7269	54.8911	47.8538	42.3895	23.8441	42.3895

21.8319	8.3379	7.2689	6.4389	3.6219	6.4389	
16.3740	6.2534	5.4517	4.8292	2.7164	4.8292	
				1.7979	5.2064	
				6.9870	20.2328	
				2.8984	8.3933	
				0.4287	1.2414	
				0.2623	0.7597	
				0.3007	0.8708	
				47.0853	136.3491	
				0.0640	0.1853	
				0.0064	0.0185	
				0.0064	0.0185	
				0.0064	0.0185	
				0.0064	0.0185	
				4.2165	12.2101	
2.5799	1.5802	1.3222	0.6772	0.3547	0.5482	
0.0261	0.0160	0.0134	0.0068	0.0036	0.0055	
76.7907	139.3725	165.8137	53.8783	9.3613	14.4674	
45.0993	81.8537	97.3826	31.6428	5.4979	8.4967	
181.0166	105.4643	125.4725	40.7701	7.0837	10.9476	
122.0058	71.0832	84.5689	27.4792	4.7745	7.3787	
53.2170	49.7283	37.9483	17.0886			
35.8684	33.5170	25.5773	11.5177			
4339.0395						
482.1155						

[reasonable steps to](#)
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40
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50.80 X 15.49 X 2.41 27.94 X 27.94 X 2.54 26.92 X 26.92 X 2.92 47.24 X 47.24 X 4.19 27.94 X 27.94 X 3.28 40.00 X 40.00 X 3.18
6.5806 7.1998 8.5805 37.6682 7.4280 17.6567

Amount	Amount	Amount	Amount	Amount	Amount
5210.7430	5226.6784	5335.9952	18187.6912	4706.2548	12291.0537
192.5922	406.5123	728.8573	1275.8943	374.7977	997.6234
105.3807	222.4312	398.8087	698.1309	205.0780	545.8694
61.7749	130.3907	233.7844	409.2491	120.2181	319.9924
1.8169	3.8350	6.8760	12.0367	3.5358	9.4115
0.7268	1.5340	2.7504	4.8147	1.4143	3.7646
0.1454	0.3068	0.5501	0.9629	0.2829	0.7529
0.3634	0.7670	1.3752	2.4073	0.7072	1.8823
0.3634	0.7670	1.3752	2.4073	0.7072	1.8823
0.3634	0.7670	1.3752	2.4073	0.7072	1.8823
0.3634	0.7670	1.3752	2.4073	0.7072	1.8823
0.7268	1.5340	2.7504	4.8147	1.4143	3.7646
0.7268	1.5340	2.7504	4.8147	1.4143	3.7646
0.7268	1.5340	2.7504	4.8147	1.4143	3.7646
177.9559	255.4115	527.6400	847.8246		
97.3721	139.7535	288.7087	463.9040		
57.0802	81.9244	169.2430	271.9437		
1.6788	2.4095	4.9777	7.9983		
0.6715	0.9638	1.9911	3.1993		
0.1343	0.1928	0.3982	0.6399		
0.3358	0.4819	0.9955	1.5997		
0.3358	0.4819	0.9955	1.5997		
0.3358	0.4819	0.9955	1.5997		
0.3358	0.4819	0.9955	1.5997		
0.6715	0.9638	1.9911	3.1993		
0.6715	0.9638	1.9911	3.1993		
0.6715	0.9638	1.9911	3.1993		
				579.3693	1695.6594
30.1777	42.3895	80.1427	144.0995	47.8538	47.8538

4.5840	6.4389	12.1736	21.8885	7.2689	7.2689	
3.4380	4.8292	9.1302	16.4164	5.4517	5.4517	
0.3225	0.5482	1.1368	2.4590	0.5482	1.4593	
0.0033	0.0055	0.0115	0.0248	0.0055	0.0147	
17.0174	31.7170	62.3047	119.7979	30.0477	79.9798	
9.9943	18.6274	36.5917	70.3575	17.6470	46.9723	
12.8772	24.0005	47.1465	90.6520	22.7373	60.5214	
8.6793	16.1764	31.7769	61.0997	15.3250	40.7916	
16.7551	24.0478	33.1194	53.2170			
11.2930	7.4816	22.3226	35.8684			
			11634.8760			
			1292.7640			

132
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68
FD
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FK
MIL

35.56 X 35.56 X 2.54
12.0020

40.00 X 40.00 X 2.41
13.8799

27.00 X 27.00 X 2.38
4.7085

24.13 X 24.13 X 2.29
4.5802

35.99 X 35.99 X 2.79
19.5739

8.89 X 8.89 X 2.06
0.4302

Amount	Amount	Amount	Amount	Amount	Amount
8891.9532	9638.2611	2622.9480	3569.5296	9197.3528	226.0065
				5028.4633	
776.3797	852.8414			884.5318	
424.8116	466.6491			483.9891	
249.0275	273.5529			283.7178	
7.3243	8.0457			8.3446	
2.9297	3.2183			3.3379	
0.5859	0.6437			0.6676	
1.4649	1.6091			1.6689	
1.4649	1.6091			1.6689	
1.4649	1.6091			1.6689	
1.4649	1.6091			1.6689	
2.9297	3.2183			3.3379	
2.9297	3.2183			3.3379	
2.9297	3.2183			3.3379	
242.9035	653.2436	622.6269	255.4115	792.2450	
132.9095	357.4352	340.6826	139.7535	433.4925	
77.9124	209.5310	199.7105	81.9244	254.1163	
2.2915	6.1627	5.8738	2.4095	7.4740	
0.9166	2.4651	2.3495	0.9638	2.9896	
0.1833	0.4930	0.4699	0.1928	0.5979	
0.4583	1.2325	1.1748	0.4819	1.4948	
0.4583	1.2325	1.1748	0.4819	1.4948	
0.4583	1.2325	1.1748	0.4819	1.4948	
0.4583	1.2325	1.1748	0.4819	1.4948	
0.9166	2.4651	2.3495	0.9638	2.9896	
0.9166	2.4651	2.3495	0.9638	2.9896	
0.9166	2.4651	2.3495	0.9638	2.9896	
					95.6124
47.8538	99.3918		34.8140	99.3918	5.9610

7.2689	15.0975		5.2882	15.0975	0.9055
5.4517	11.3231		3.9662	11.3231	0.6791
					1.0598
					4.1186
					1.7086
					0.2527
					0.1546
					0.1773
					27.7555
					0.0377
					0.0038
					0.0038
					0.0038
					0.0038
					2.4855
1.0642	1.1690		0.5482	2.0639	0.1612
0.0107	0.0118		0.0055	0.0208	0.0016
58.3278	64.0722	327.1997	35.6121	236.4932	15.2748
34.2560	37.6297	192.1649	20.9150	138.8928	8.9709
44.1371	48.4840			178.9563	
29.7486	32.6783			120.6171	
22.8702	4.1003		24.0478	24.8642	
15.4146	27.6364		16.2083	33.5170	

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11.43 X 11.43 X 1.78
0.8345

27.94 X 27.94 X 2.29
6.8346

19.05 X 19.05 X 2.54
9.8967

0.5315

39.98 X 39.98 X 2.79
19.8281

16.51 X 16.51 X 1.91
1.7597

Amount	Amount	Amount	Amount	Amount	Amount
263.5428	4626.3653	1839.8694		11223.6517	1230.7706
		5019.6510		3246.4277	
	462.9854	757.8086		809.2701	
	253.3317	414.6500		442.8082	
	148.5048	243.0707		259.5772	
	4.3678	7.1491		7.6346	
	1.7471	2.8597		3.0538	
	0.3494	0.5719		0.6108	
	0.8736	1.4298		1.5269	
	0.8736	1.4298		1.5269	
	0.8736	1.4298		1.5269	
	0.8736	1.4298		1.5269	
	1.7471	2.8597		3.0538	
	1.7471	2.8597		3.0538	
	1.7471	2.8597		3.0538	
111.6477	332.2216	251.2073		885.9243	157.4407
61.0902	181.7816	137.4530		484.7511	86.1468
35.8115	106.5617	80.5759		284.1644	50.4998
1.0533	3.1342	2.3699		8.3578	1.4853
0.4213	1.2537	0.9480		3.3431	0.5941
0.0843	0.2507	0.1896		0.6686	0.1188
0.2107	0.6268	0.4740		1.6716	0.2971
0.2107	0.6268	0.4740		1.6716	0.2971
0.2107	0.6268	0.4740		1.6716	0.2971
0.2107	0.6268	0.4740		1.6716	0.2971
0.4213	1.2537	0.9480		3.3431	0.5941
0.4213	1.2537	0.9480		3.3431	0.5941
0.4213	1.2537	0.9480		3.3431	0.5941
9.9350	62.9633	70.2672	230.7579	89.5085	20.0340

1.5091	9.5640	10.6735	35.0518	13.5962	3.0431	
1.1318	7.1730	8.0051	26.2889	10.1972	2.2824	
0.2257	0.6772	0.8062	3.2894	2.3219	0.3547	
0.0023	0.0068	0.0081	0.0332	0.0235	0.0036	
21.3847	37.1177	134.0554		217.7949	33.6045	
12.5593	21.7993	78.7310		127.9113	19.7360	
	28.0873	101.4408		164.8071		
	18.9309	68.3714		111.0805		
10.5120	31.2798	23.6520		55.6085	14.8236	
7.0851	21.0827	15.9415		37.4803	9.9911	

Pressed Ceramic Packages

Pin	Package	Group	Description	Comments	Body Size	Package Mass
					9.65 X 6.30 X 3.25	6.12 X 6.12 X 1.24
					1.0564	0.2599
Item	Component	CAS #	Substance	%	Amount	Amount
Header	Ceramic	1344-28-1	Aluminum Oxide	90.000%	602.3841	122.2388
Lead Frame	Alloy 42	7439-89-6	Iron	58.000%	105.9305	25.9634
Lead Frame	Alloy 42	7440-02-0	Nickel	41.000%	74.8819	18.3534
Lead Frame	Alloy 42	7439-96-5	Manganese	0.800%	1.4611	0.3581
Lead Frame	Alloy 42	7440-21-3	Silicon	0.300%	0.5479	0.1343
Lead Frame	Alloy 42	7440-44-0	Carbon	0.050%	0.0913	0.0224
Lead Frame	Alloy 42	7440-47-3	Chromium	0.250%	0.4566	0.1119
Lead Frame	Alloy 42	7723-14-0	Phosphorus	0.025%	0.0457	0.0112
Lead Frame	Alloy 42	7704-34-9	Sulfur	0.025%	0.0457	0.0112
Lead Frame	Alloy 42	7429-90-5	Aluminum	0.100%	0.1826	0.0448
Die Attach	N/A	7440-22-4	Silver	79.000%	3.7256	2.9805
Die Attach	N/A	lead 7439-92-1 vanadium 1314-62-2 tellurium 10028-16-7	filler (lead, vanadium, tellurium glass)	12.000%	0.5659	0.4527
Die Attach	N/A		solvent/binder	9.000%	0.4244	0.3396
Seal Glass	LS-0113	14808-60-7	SiO2	2.810%	5.4568	1.7755
Seal Glass	LS-0113	13463-67-7	TiO2	10.920%	21.2060	6.8999
Seal Glass	LS-0113	11314-23-4	ZrO2	4.530%	8.7970	2.8623
Seal Glass	LS-0113	1344-28-1	Al2O3	0.670%	1.3011	0.4233
Seal Glass	LS-0113	1317-60-8	Fe2O3	0.410%	0.7962	0.2591
Seal Glass	LS-0113	1308-38-9	Cr2O3	0.470%	0.9127	0.2970
Seal Glass	LS-0113	1317-36-8	PbO	73.590%	142.9072	46.4985
Seal Glass	LS-0113	1307-96-6	CoO	0.100%	0.1942	0.0632
Seal Glass	LS-0113	1305-78-8	CaO	0.010%	0.0194	0.0063
Seal Glass	LS-0113	1309-48-4	MgO	0.010%	0.0194	0.0063
Seal Glass	LS-0113	12030-88-5	K2O	0.010%	0.0194	0.0063

Seal Glass	LS-0113	124-86-4	Na2O	0.010%	0.0194	0.0063
Seal Glass	LS-0113	1303-86-2	B2O3	6.590%	12.7974	4.1639
Bond Wire	Aluminum	7429-90-5	Aluminum	99.000%	0.0645	0.0806
Bond Wire	Aluminum	7440-21-3	Silicon	1.000%	0.0007	0.0008
Leadframe Plating	Solder Dipped	7440-31-5	Tin	63.000%	2.5283	5.7303
Leadframe Plating	Solder Dipped	7439-92-1	Lead	37.000%	1.4849	3.3654

Product Content Methodology

[For an explanation of the methods used to determine material weights, See Product Content Methodology.](#)

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8.64 X 6.12 X 1.45
0.3946

9.91 X 6.76 X 0.94
0.5307

12.60 X 6.73 X 1.57
0.7145

15.75 X 9.65 X 1.75
1.5171

18.29 X 9.65 X 1.75
1.7235

19.30 X 7.31 X 3.12
2.1901

6.12 X 4.85 X 1.30
0.2485

Amount	Amount	Amount	Amount	Amount	Amount	Amount
204.1102	282.6918	374.3676	779.4482	892.1912	1319.3842	99.7248
36.3487	41.5414	51.9267	121.8750	142.1875	137.4943	36.3487
25.6948	29.3654	36.7068	86.1530	100.5119	97.1942	25.6948
0.5014	0.5730	0.7162	1.6810	1.9612	1.8965	0.5014
0.1880	0.2149	0.2686	0.6304	0.7355	0.7112	0.1880
0.0313	0.0358	0.0448	0.1051	0.1226	0.1185	0.0313
0.1567	0.1791	0.2238	0.5253	0.6129	0.5926	0.1567
0.0157	0.0179	0.0224	0.0525	0.0613	0.0593	0.0157
0.0157	0.0179	0.0224	0.0525	0.0613	0.0593	0.0157
0.0627	0.0716	0.0895	0.2101	0.2452	0.2371	0.0627
2.9805	2.9805	4.2224	7.1408	7.1408	4.0568	1.6765
0.4527	0.4527	0.6414	1.0847	1.0847	0.6162	0.2547
0.3396	0.3396	0.4810	0.8135	0.8135	0.4622	0.1910
2.3993	3.4666	5.1466	10.9958	12.1502	12.8989	1.6524
18.4728	13.4715	20.0003	42.7309	47.2172	50.1265	6.4214
1.6787	5.5885	8.2968	17.7263	19.5874	20.7942	2.6638
0.4412	0.8266	1.2271	2.6218	2.8970	3.0755	0.3940
0.0159	0.5058	0.7509	1.6044	1.7728	1.8820	0.2411
0.0748	0.5798	0.8608	1.8391	2.0322	2.1575	0.2764
293.1893	90.7848	134.7823	287.9638	318.1975	337.8032	43.2741
0.0127	0.1234	0.1832	0.3913	0.4324	0.4590	0.0588
0.0549	0.0123	0.0183	0.0391	0.0432	0.0459	0.0059
0.0060	0.0123	0.0183	0.0391	0.0432	0.0459	0.0059
0.0314	0.0123	0.0183	0.0391	0.0432	0.0459	0.0059

0.0123	0.0123	0.0183	0.0391	0.0432	0.0459	0.0059
15.2513	8.1298	12.0698	25.7872	28.4947	30.2503	3.8752
0.1129	0.1290	0.1612	0.3870	0.4515	0.1129	0.1129
0.0011	0.0013	0.0016	0.0039	0.0046	0.0011	0.0011
8.0225	9.1686	8.5955	18.7539	21.8795	11.2436	8.0225
4.7116	5.3847	5.0482	11.0142	12.8499	6.6034	4.7116

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19.30 X 7.32 X 3.12
2.2484

24.13 X 7.32 X 3.30
3.1148

31.75 X 13.21 X 3.18
7.0565

31.75 X 7.32 X 3.18
4.0693

12.70 X 8.89 X 1.75
1.0114

36.83 X 14.66 X 3.18
8.3779

Amount	Amount	Amount	Amount	Amount	Amount
1319.3842	1836.2627	4156.5881	2289.3327	579.6581	5238.4626
169.2933	201.9643	362.4912	269.5179	62.3120	440.9310
119.6728	142.7679	256.2437	190.5213	44.0482	311.6926
2.3351	2.7857	4.9999	3.7175	0.8595	6.0818
0.8757	1.0446	1.8750	1.3941	0.3223	2.2807
0.1459	0.1741	0.3125	0.2323	0.0537	0.3801
0.7297	0.8705	1.5625	1.1617	0.2686	1.9006
0.0730	0.0871	0.1562	0.1162	0.0269	0.1901
0.0730	0.0871	0.1562	0.1162	0.0269	0.1901
0.2919	0.3482	0.6250	0.4647	0.1074	0.7602
4.0568	4.0568	7.4720	4.0568	4.0568	27.9423
0.6162	0.6162	1.1350	0.6162	0.6162	4.2444
0.4622	0.4622	0.8512	0.4622	0.4622	3.1833
12.8989	19.2703	48.8473	28.5710	6.5533	47.4196
50.1265	74.8868	189.8265	111.0304	25.4669	184.2784
20.7942	31.0657	78.7467	46.0593	10.5646	76.4452
3.0755	4.5947	11.6469	6.8123	1.5625	11.3065
1.8820	2.8117	7.1272	4.1687	0.9562	6.9189
2.1575	3.2232	8.1702	4.7788	1.0961	7.9314
337.8032	504.6632	1279.2428	748.2350	171.6218	1241.8542
0.4590	0.6858	1.7383	1.0168	0.2332	1.6875
0.0459	0.0686	0.1738	0.1017	0.0233	0.1688
0.0459	0.0686	0.1738	0.1017	0.0233	0.1688
0.0459	0.0686	0.1738	0.1017	0.0233	0.1688

0.0459	0.0686	0.1738	0.1017	0.0233	0.1688
30.2503	45.1927	114.5565	67.0046	15.3688	111.2083
0.1290	0.1612	0.1935	0.1935	0.1935	0.2257
0.0013	0.0016	0.0020	0.0020	0.0020	0.0023
13.4000	19.0838	33.9966	21.3377	10.3146	25.5164
7.8698	11.2079	19.9663	12.5317	6.0578	14.9858

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36.83 X 7.32 X 3.23 12.70 X 12.70 X 3.05 24.13 X 24.13 X 2.68
4.8168 2.2600 7.4744

Amount	Amount	Amount
2692.0627	1370.8693	4428.0493
325.4705	228.4775	332.6364
230.0740	161.5100	235.1395
4.4892	3.1514	4.5881
1.6835	1.1818	1.7205
0.2806	0.1970	0.2868
1.4029	0.9848	1.4338
0.1403	0.0985	0.1434
0.1403	0.0985	0.1434
0.5612	0.3939	0.5735
7.0373	17.8831	53.6492
1.0690	2.7164	8.1492
0.8017	2.0373	6.1119
33.8510	6.6366	48.8201
131.5490	25.7905	189.7209
54.5712	10.6988	78.7029
8.0712	1.5824	11.6404
4.9391	0.9683	7.1232
5.6619	1.1100	8.1656
886.5102	173.8026	1278.5312
1.2047	0.2362	1.7374
0.1205	0.0236	0.1737
0.1205	0.0236	0.1737
0.1205	0.0236	0.1737

0.1205	0.0236	0.1737
79.3872	15.5641	114.4927
0.2257	0.5482	1.0642
0.0023	0.0055	0.0107
24.8940	40.1472	77.9327
14.6203	23.5785	45.7700

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